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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,635	11/19/2003	Derek Seeber	650265.00006	6446
26710 QUARLES & I	7590 · 05/17/2007 BRADY LLP	EXAMINER		
411 E. WISCONSIN AVENUE SUITE 2040 MILWAUKEE, WI 53202-4497			KISH, JAMES M	
			ART UNIT	PAPER NUMBER
	•		3737	
			MAIL DATE	DELIVERY MODE
			05/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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T topp	Application No.	Applicant(s)				
	10/716,635	SEEBER, DEREK				
Notice of Allowability	Examiner	Art Unit				
	Jamas Kish	2727				
	James Kish	3737				
The MAILING DATE of this communication apperature of the Mail Claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	oplication. If not included n will be mailed in due course. THIS				
1. This communication is responsive to October 10, 2006.						
2. The allowed claim(s) is/are 1-8 and 10-18.						
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some* c) None of the:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this national stage application from the						
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached						
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR and each sheet. Replacement sheet(s) should be labeled as such in						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal I 6. ☐ Interview Summan Paper No./Mail Da 7. ⊠ Examiner's Amend	y (PTO-413), ate				
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Statem	ent of Reasons for Allowance				
of Biological Material	9. ☐ Other	S. C.				

## SUPPLEMENTAL EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Keith Baxter (Reg. No. 31,233) on January 17, 2007. The application has been amended as follows:

Claim 10 shall be amended as follows:

10. The local coil of claim  $\underline{1}$  [9] wherein the processor zeros the NMR signals when the indication of motion is above a predetermined threshold.

Claim 12 shall be amended as follows:

12. A motion artifact correction system for local coils removably insertable into a bore of an MRI machine comprising:

a motion sensor providing a signal indicating motion of a portion of a patient imaged by a local coil; and a processor system:

- (i) receiving the indication of motion from the motion sensor;
- (ii) receiving a detected NMR signal from the local coil;

(iii) correcting the NMR signal based on the indication of motion; and

(iv) providing the corrected NMR signal to the MRI machine;

wherein the motion sensor and the processor system are capable of incorporation into the local coil.

The following is an examiner's statement of reasons for allowance:

The claimed invention reads over the prior art because the local coil is intended to be added to a pre-existing MRI machine as an add-on device. The manufacturer of the local coil normally does not have access to the internal and proprietary systems that control pulse sequences from the MRI machine, nor is a universal connection of this type provided to the owner of the MRI machine. This ability to provide for correction of motion without access to the pulses of the MRI machine itself, and, in some cases, without precise quantitative information about the motion, makes possible a local coil having improved motion artifact resistance, as presented by the current application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Kish whose telephone number is 571-272-5554. The examiner can normally be reached on 8:30 - 5:00 ~ Mon. - Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**JMK** 

BRIAN L. CASLER
SUPERVISORY PATENT EXAMPLER
VICTORIAL ORY CENTER 3770